

WHAT IS CLAIMED IS:

1. A power supply device, comprising:

a switching power supply section for receiving a DC voltage as an input voltage at a primary side thereof, switching the inputted DC voltage and generating a stabilized output DC voltage at a secondary side thereof isolated from the primary side; and

a current detection section for generating a detection signal in response to supply current to said switching power supply section;

said current detection section generating the detection signal isolated from the primary side and conveying the detection signal to an equipment connected to the secondary side of said switching power supply section.

2. A power supply device according to claim 1, wherein said current detection section discriminates a supply state of the DC voltage inputted to the primary side of said switching power supply section based on the supply current to said switching power supply section and notifies, when said current detection section discriminates that the supply of the DC voltage stops, the equipment connected to the secondary side of said switching power supply section, of the stop of the supply

of the DC voltage as a detection signal.

3. A power supply device according to claim 1, wherein said current detection section includes a photo-diode for generating light of a light amount corresponding to the supply current to said switching power supply section, and a phototransistor for detecting the light generated from said photo-diode and generating a signal corresponding to the light amount, and generates the detection signal based on the signal outputted from said phototransistor.

4. A power supply device according to claim 1, further comprising a rectification section for receiving an AC voltage as an input voltage and rectifying the inputted AC voltage into a DC voltage, wherein the DC voltage outputted from said rectification section is inputted to said switching power supply section.

5. An electronic equipment, comprising:
a switching power supply section for receiving a DC voltage as an input voltage at a primary side thereof, switching the inputted DC voltage and generating a stabilized output DC voltage at a secondary side thereof isolated from the primary side;
a current detection section for generating a detection signal in response to supply current to said

switching power supply section;
an operation circuit for operating using the output DC voltage outputted from said switching power supply section as a voltage source; and
a control section for operating using the output DC voltage outputted from said switching power supply section as a voltage source to control said operation circuit;
said current detection section generating the detection signal isolated from the primary side and conveying the detection signal to said control section;
said control section performing an operation ending process of said operation circuit in response to the detection signal.

6. An electronic equipment according to claim 5, wherein said current detection section discriminates a supply state of the DC voltage inputted to the primary side of said switching power supply section based on the supply current to said switching power supply section and notifies, when said current detection section discriminates that the supply of the DC voltage stops, said control section, of the stop of the supply of the DC voltage as a detection signal.

7. An electronic equipment according to claim 5,

wherein said current detection section includes a photo-diode for generating light of a light amount corresponding to the supply current to said switching power supply section, and a phototransistor for detecting the light generated from said photo-diode and generating a signal corresponding to the light amount, and generates the detection signal based on the signal outputted from said phototransistor.

8. An electronic equipment according to claim 5, further comprising a rectification section for receiving an AC voltage as an input voltage and rectifying the inputted AC voltage into a DC voltage, wherein the DC voltage outputted from said rectification section is inputted to said switching power supply section.